

KICKER®

KSR-SERIES SUBSTATIONS

ENCLOSURE SYSTEMS

The KICKER KSR-series Substations are single-reflex bandpass enclosures intended for use as subwoofers in multi-speaker installations. The enclosures are designed to fit in the rear of a hatchback-type car or the trunk of a sedan.

All Substation enclosures are optimized to provide the most dynamic bass for a given amount of space.

GENERAL INSTALLATION INFORMATION

The position of your KICKER Substation will affect the quality and amount of the bass it reproduces. Experimentation will allow you to choose what sounds best in your vehicle.

The ideal situation is to mount the Substation with the ported end about four inches from the rear corner of your trunk or hatchback area. This will add the "boundary loading effect", which boosts bass output at the lower frequencies.

After determining the best location for your Substation by trial fitting and listening, find the best placement for the mounting brackets (See Diagram 1). Each bracket must be positioned so that the rounded end protrudes from under the cabinet by about 3/4 inch. These brackets and screws will be used to attach the cabinet firmly to the vehicle (See Diagram 2).

If the enclosed brackets are not applicable to your installation, *some other means must be utilized to secure the cabinet to the vehicle.*

For optimum sound quality, KSR-series Substations should be used with some form of low pass crossover. The best crossover is an electric crossover used before a dedicated subwoofer amplifier. If it is necessary to use passive crossovers, a 6mH coil wired in series with the Substation will help reduce unwanted out of band frequencies. The KICKER Impulse™ X2100I subwoofer crossover is a good choice. When wiring the Substation to your amplifier, connect the positive output to the red input terminal and connect the negative output to the black terminal. The KSR-series Substations provide a 4 Ohm load to the amplifier.

DIAGRAM 1

Hatchback or Sedan Trunk Mounting

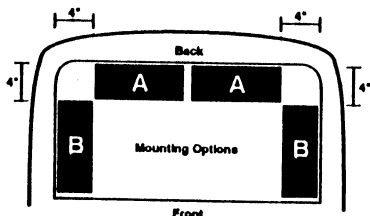
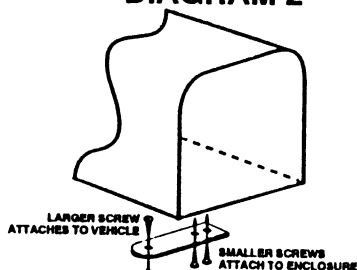


DIAGRAM 2



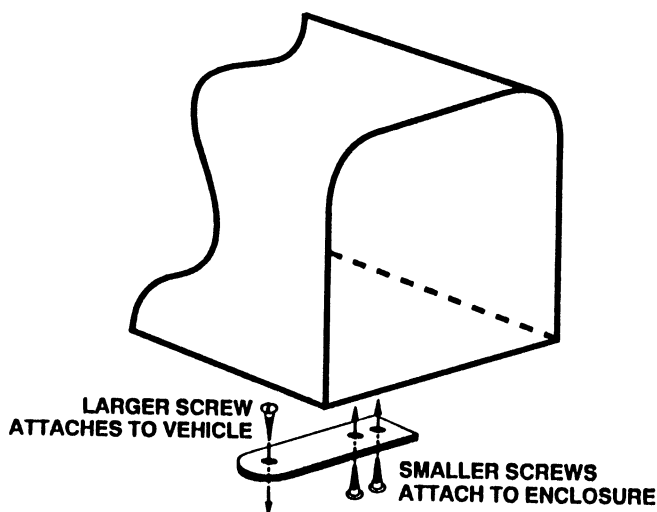
Model	KSR80	KSR100	KSR120
Frequency Response	40-131Hz	39-130Hz	36-129Hz
Maximum Amplifier Power*	150 watts RMS	200 watts RMS	250 watts RMS
Impedance	4 Ohms	4 Ohms	4 Ohms

*Assumes typical music program with minimal amplifier clipping.

AMERICA'S MUSIC MACHINESSM

After determining the location for your KS-Series Subwoofer Enclosure by trial fitting, find the best placement for the mounting brackets. Each bracket must be positioned so that the rounded end protrudes from under the cabinets firmly to the vehicle (See Diagram 2). In a truck application the KS-Series Enclosure can mount with the flat side towards the back of the cab to allow room for two brackets on the top edge and one bracket on each end.

DIAGRAM 2



If the enclosed brackets are not applicable to your installation, some other means must be utilized to secure the speakers to the vehicle.

For optimum sound quality the KICKER KS-Series Enclosure should be used with some form of low pass crossover. This can be a passive crossover (such as the KICKER SW100) or and electronic crossover used before a dedicated subwoofer amplifier.

When wiring the Substations to your amplifier, connect the positive output from one channel to the red input terminal of one speaker, then connect the negative output from that channel to the black input terminal of the speaker. Repeat this procedure for the other Substation.

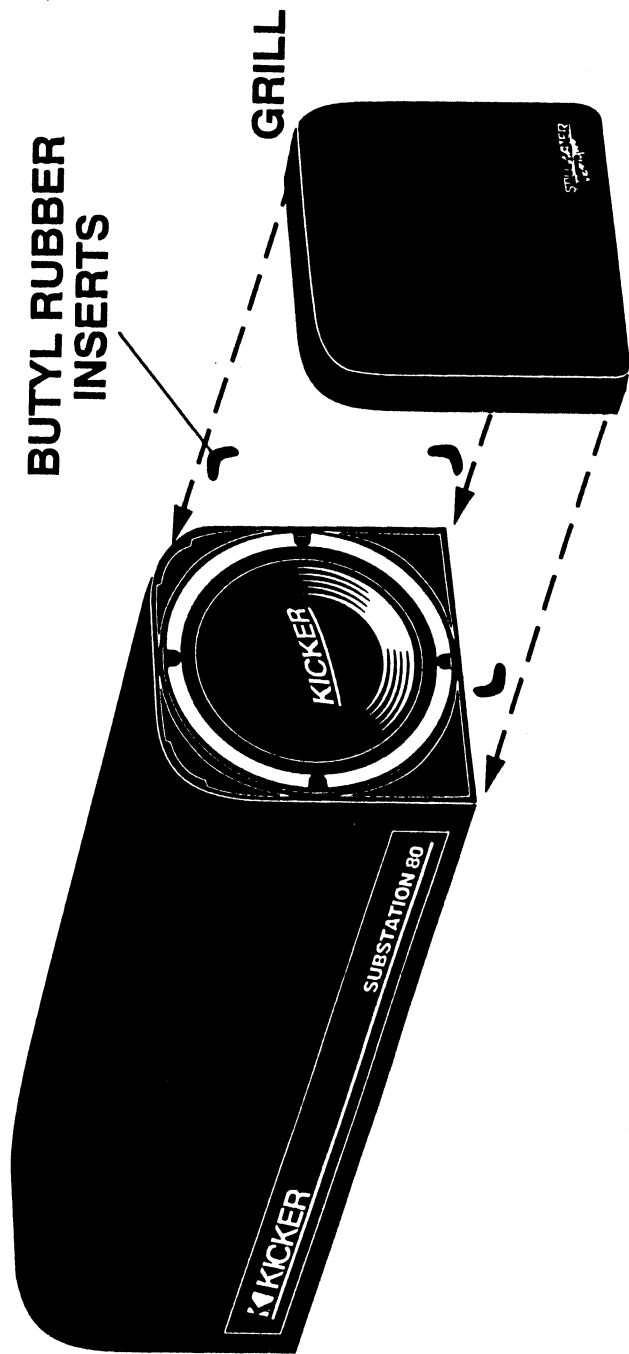
The wiring configuration can vary depending on the Impedance capability of your source. For wiring suggestions other than those described above, please consult the manufacturer of your amplifier.

SPECIFICATIONS

Model	KS60	KS80
Frequency Response	32-1kHz	29-1kHz
Maximum Amplifier Power*	100 watts RMS	150 watts RMS
Impedance	4 Ohms	4 Ohms

*Assumes typical music program with minimal amplifier clipping.

DIAGRAM 3 - GRILL INSTALLATION



SPEAKER SYSTEMS LIMITED WARRANTY

Stillwater Designs warrants this product to be free from defects in material and workmanship under normal use for a period of **one (1) year from date of original purchase**. Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction during the first year from date of original purchase, Stillwater Designs will replace or repair (at its discretion) the defective merchandise at no charge.

This warranty is valid only for the **original purchaser** and is not extended to owners of the product subsequent to the original purchaser. Any applicable implied warranties are limited in duration to a period of the express warranty as provided herein beginning with the date of the original purchase at retail, and no warranties, whether express or implied, shall apply to this product thereafter. Some states do not allow limitations on implied warranties; therefore these exclusions may not apply to you.

This warranty gives you specific legal rights; however you may have other rights that vary from state to state.

WHAT TO DO IF YOU NEED WARRANTY OR SERVICE

Defective merchandise must be returned to your local Authorized Stillwater Designs (Kicker/Impulse) Dealer for warranty. Assistance in locating an Authorized Dealer can be obtained by writing or calling Stillwater Designs directly. You can confirm that a dealer is authorized for service by the display of a current "Authorized Dealer" window decal.

If it becomes necessary for you to send defective merchandise, package all defective items in the original container or in a package that will prevent shipping damage, and return to:

Stillwater Designs, 5021 North Perkins Road, Stillwater, OK 74075

Return only defective components. Return of entire cabinets, system packs, pairs, etc. increases your return freight charges. Non-defective items received will be returned freight collect.

Include a **dated proof of purchase** from an Authorized Dealer. Warranty expiration on items returned without proof of purchase will be determined from the manufacturing date code.

Coverage may be invalidated if this date is greater than one (1) year previous to the date item is sent in. Freight must be prepaid; items received freight collect will be refused.

Failure to follow these steps may void your warranty. Any questions may be directed to the Warranty Department at (405)624-8510.

WHAT IS NOT COVERED?

This warranty is valid only if the product is used for the purpose for which it was designed.

It does not cover:

- Install slips (screwdriver holes)
- Damage caused by exposure to water and/or excessive heat.
- Damage through negligence, misuse, or accident.
- Items physically damaged due to abuse.
- Freight damage.
- The cost of shipping product to Stillwater Designs Service.
- Items previously repaired by any unauthorized repair facility.
- Items returned from unauthorized individuals or dealers.
- Return shipping on non-defective items.
- Speakers damaged due to amplifier clipping or distortion.
- Speakers with silicon caulk used for gasket material.

HOW LONG WILL IT TAKE?

Stillwater Designs maintains a goal of 24-hour service for all returns. Delays may be incurred if lack of replacement inventory or parts is encountered.

INTERNATIONAL WARRANTY

Contact your International Stillwater Designs dealer or distributor concerning specific procedures for your country's warranty policies.

P.O. Box 459 • Stillwater, Oklahoma 74076 • U.S.A. • 405 624-8510

STILLWATER
Designs

WARNING:

KICKER drivers are capable of producing sound levels that can permanently damage your hearing! Turning up a system to a level that has audible distortion is more damaging to your ears than listening to an undistorted system at the same volume level. The threshold of pain is always an indicator that the sound level is too loud and may permanently damage your hearing. **Please use common sense when controlling volume!**

AUGUST 1995